

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,485,312 B2  
APPLICATION NO. : 10/561343  
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INVENTOR(S) : Udo Krupka

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The drawing sheets, consisting of fig. 6 should be deleted to be replaced with the drawing sheet consisting of fig. 6, as shown on the attached page.

Signed and Sealed this

Eighth Day of June, 2010

A handwritten signature in black ink that reads "David J. Kappos". The signature is written in a cursive, flowing style.

David J. Kappos  
*Director of the United States Patent and Trademark Office*

Fig. 6 Comparison of the amino acid sequences of the a determinant (aa 100 to aa 180) of the novel variant HDB 11 (lower row) and of the HBV ayw2 wild type (upper row)

	aa										aa	wild-type ayw2 aa sequence:	Y	100							
											aa	variant HDB 11 aa sequence:	Y								
101	Q	G	M	L	P	V	C	P	L	I	P	G	S	S	T	S	T	G	P	120	
	Q	G	<u>I</u>	L	P	V	C	P	L	I	P	G	S	<u>A</u>	<u>I</u>	<u>N</u>	<u>N</u>	<u>R</u>	G	<u>Q</u>	
121	C	R	T	C	T	T	P	A	Q	G	T	S	M	Y	P	S	C	C	C	T	140
	C	K(R)	T	C	T	T	<u>T</u>	A	<u>H</u>	G	T	S	M	Y	P	<u>Y</u>	C	C	C	T	
141	K	P	S	D	G	N	C	T	C	I	P	I	P	S	S	W	A	F	G	K	160
	K	P	S	D	G	N	C	T	C	I	P	I	P	S	S	W	A	F	G	K	
161	F	L	W	E	W	A	S	A	R	F	S	W	L	S	L	L	V	P	F	V	180
	F	L	W	E	W	A	S	A	R	F	S	W	L	S	L	L	V	P	F	V	

The following aa are substituted (x) in the HDB 11 variant as compared with the HBV ayw2 wild type:

V 96 (A) (not in the region of the a determinant),

M 103 (I), S 114 (A), T 115 (I), T 116 (N), S 117 (N), T 118 (R), P 120 (Q), P 127 (T), Q 129 (H)

and S 136 (Y) (all in region of the a determinant)